

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number  
**WO 2005/067508 A2**

(51) International Patent Classification: **Not classified**

(21) International Application Number:  
PCT/US2004/043938

(22) International Filing Date:  
28 December 2004 (28.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/533,599 2 January 2004 (02.01.2004) US

(71) Applicant and

(72) Inventor: **HIGGINS, Darrell, Grayson** [US/US]; 4884  
Denise Dr., Trinity, NC 27370 (US).

(74) Agent: **PITTS, Robert, W.**; P.O. Box 11483, Winston-  
Salem, NC 27116-1483 (US).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

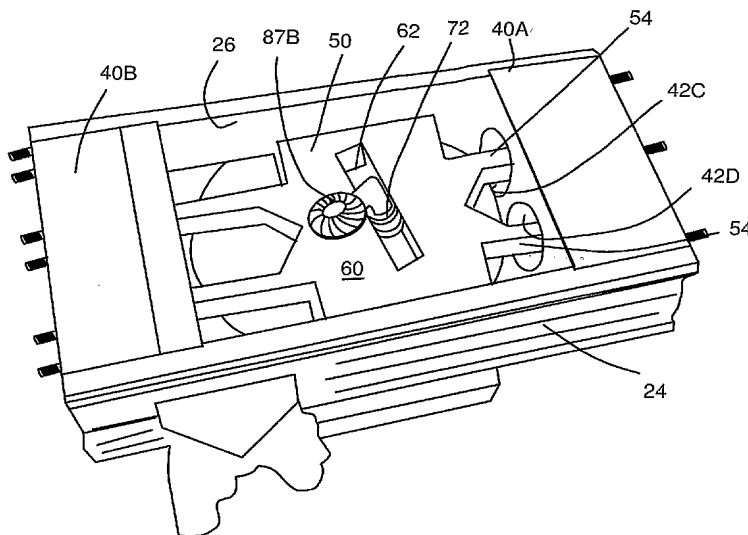
— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: SLIDE BODY INTERNAL COMBUSTION ENGINE



(57) Abstract: An internal combustion engine includes a slide body having a plurality of rigidly mounted pistons on opposite ends of the slide body. The slide body reciprocates and is connected to a flywheel by shaft and bearing which extends through an angled track in the slide body. As the pistons impart linear movement to the slide body, the flywheel and a drive shaft rotate. Both the slide body and the flywheel are mounted on the interior of the engine. Magnets on the flywheel rotate relative to stationary coil conductors to induce a current. The housing includes four panels, which can be easily assembled and disassembled, which form a housing compartment in which the linearly movable slide piston subassembly and the rotating flywheel are positioned.



WO 2005/067508 A2